

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/028012 A1

(51) International Patent Classification⁷: **A61M 16/16**,
H01R 4/60

(21) International Application Number:
PCT/NZ2004/000195

(22) International Filing Date: 20 August 2004 (20.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
528390 19 September 2003 (19.09.2003) NZ

(71) Applicants (for all designated States except US): **FISHER & PAYKEL HEALTHCARE LIMITED** [NZ/NZ]; 15 Maurice Paykel Place, East Tamaki, Auckland, 1706 (NZ). **WILSON, Grant, Warren** [NZ/NZ]; 135 Waipuna Road, Mt Wellington, Auckland, 1006 (NZ).

(72) Inventors; and

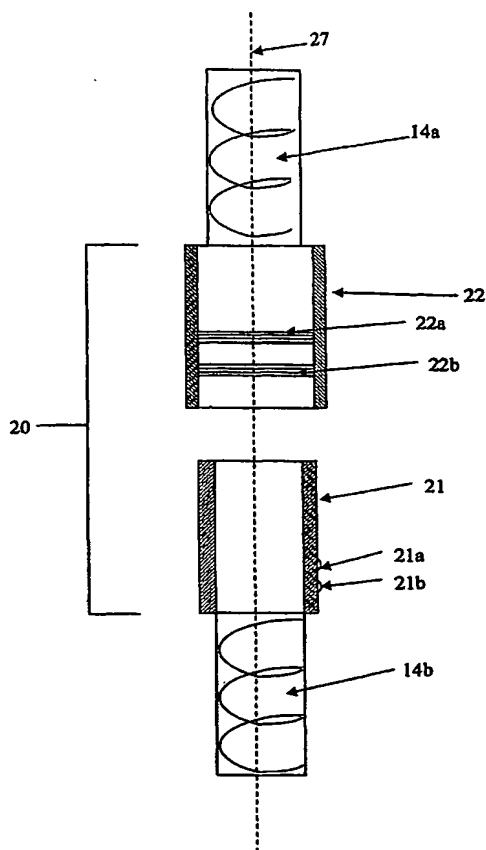
(75) Inventors/Applicants (for US only): **LAURENT, Kristopher, Poh, Ming** [NZ/NZ]; 8 Jiliteresa Crescent, Bucklands Beach, Auckland, 1706 (NZ). **MCAULEY, Alastair, Edwin** [NZ/NZ]; 58A Ngapuhi Road, Remuera, Auckland, 1005 (NZ). **NIGHTINGALE, Christopher, Earl** [NZ/GB]; 18 Settlers Court, 17 Newport Avenue, Poplar, London England E142DG (GB). **MAKINSON, Ian, Douglas** [GB/NZ]; 19 Leone Terrace, Mt Albert, Auckland, 1003 (NZ). **MILIVOJEVIC, Ivan** [NZ/NZ]; 221B Lake Road, Takapuna, Auckland, 1310 (NZ).

(74) Agents: **ADAMS, Matthew, D et al.**; A J Park, 6th Floor Huddart Parker Building, PO Box 949, Wellington, 6015 (NZ).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

[Continued on next page]

(54) Title: A CONNECTOR



(57) Abstract: A connector (20) to a couple breathing conduit to a patient interface or another conduit. The connector allows for an electrical connection (22a, 22b) in a first conduit (14a) to be connected to another electrical connection (21a, 21b) in a patient interface or second conduit (14b). The connector is capable of swivelling without disrupting the gas flow through the conduits of the electrical connection.

WO 2005/028012 A1



GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.